

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A transparent substrate provided with a thin-film multilayer comprising at least one functional metal layer, ~~especially a silver-based layer,~~ having reflection properties in the infrared and/or in the solar radiation range, at least one metal barrier layer in contact with the functional layer and at least one upper dielectric layer, characterized in that at least one barrier layer is based on zirconium and in that the upper dielectric layer comprises at least one ZnO-based layer in contact with the functional layer or with the barrier layer.

Claim 2 (Original): The substrate as claimed in claim 1, characterized in that the functional layer is coated with a zirconium-based upper barrier layer surmounted at least by a ZnO-based dielectric layer.

Claim 3 (Currently Amended): The substrate as claimed in claim 2, characterized in that it includes, beneath the silver, a lower barrier layer based on a metal ~~such as titanium, nickel chromium, niobium, zirconium, etc.~~

Claim 4 (Original): The substrate as claimed in claim 1, characterized in that it includes a zirconium-based lower barrier layer and an ZnO-based upper dielectric layer in direct contact with the functional metal layer.

Claim 5 (Currently Amended): The substrate as claimed in claim 1 ~~one of the preceding claims~~, characterized in that it includes an upper mechanical protection layer based

on an oxide, nitride and/or oxynitride, especially  $\text{SnO}_2$ ,  $\text{TiO}_2$ ,  $\text{ZnSnO}_x$ ,  $\text{ZnTiO}_x$ ,  $\text{ZnZrO}_x$  and/or  $\text{Si}_3\text{N}_4$ ; this upper layer being optionally doped.

Claim 6 (Currently Amended): The substrate as claimed in claim 1 ~~one of the preceding claims~~, characterized in that the thickness of a barrier layer is less than or equal to 6 nm, ~~in particular between 0.2 and 6 nm.~~

Claim 7 (Currently Amended): The substrate as claimed in claim 1 ~~any one of the preceding claims~~, characterized in that the thickness of said functional layer is from 5 to 18 nm.

Claim 8 (Currently Amended): The substrate as claimed in claim 1 ~~any one of the preceding claims~~, characterized in that the thickness of said dielectric layer is at least 5 nm, ~~especially between 5 and 25 nm.~~

Claim 9 (Currently Amended): The substrate as claimed in claim 1 ~~one of the preceding claims~~, characterized in that said multilayer substantially retains its properties, ~~especially optical properties~~, after a heat treatment at a temperature of at least 500°C.

Claim 10 (Currently Amended): The substrate as claimed in claim 1 ~~any one of the preceding claims~~, characterized in that at least one Zr-based barrier layer is deposited by magnetron sputtering using a zirconium metal target that may optionally contain from 1 to 10% by weight of an additional element ~~such as Ca, Y, or Hf.~~

Claim 11 (Currently Amended): The substrate as claimed in claim 1 ~~any one of the preceding claims~~, characterized in that the multilayer includes a lower dielectric layer based on an oxide or nitride.

Claim 12 (Original): The substrate as claimed in claim 11, characterized in that the lower dielectric layer comprises the sequence  $\text{SnO}_2/\text{TiO}_2/\text{ZnO}$ .

Claim 13 (Original): The substrate as claimed in claim 11, characterized in that the lower dielectric layer comprises the sequence  $\text{Si}_3\text{N}_4/\text{ZnO}$ .

Claim 14 (Currently Amended): A glazing ~~Low-emissivity or solar protection glazing, and especially laminated glazing or double glazing, incorporating~~ comprising at least one substrate as claimed in claim 1 and an insert film ~~any one of the preceding claims~~.

Claim 15 (Original): The glazing as claimed in claim 14, characterized in that it comprises at least one substrate according to the invention mounted with another substrate as double glazing and the assembly has a light transmission of between 40 and 90%.

Claim 16 (Currently Amended): ~~The glazing as claimed in claim 14 either of claims 14 and 15~~, characterized in that has a selectivity defined by the ratio of the light transmission to the solar factor,  $T_1/\text{SF}$  of between 1.1 and 2.1.

Claim 17 (Canceled).

Claim 18 (New): The substrate as claimed in claim 2, wherein the multilayer substantially retains its properties after a heat treatment at a temperature of at least 500°C.

Claim 19 (New): The substrate as claimed in claim 3, wherein the multilayer substantially retains its properties after a heat treatment at a temperature of at least 500°C.

Claim 20 (New): The substrate as claimed in claim 4, wherein the multilayer substantially retains its properties after a heat treatment at a temperature of at least 500°C.

Claim 21 (New): The substrate as claimed in claim 5, wherein the multilayer substantially retains its properties after a heat treatment at a temperature of at least 500°C.